

World Resources Company

Form: FM-M01

RECYCLABLE MATERIAL PROFILE

EXHIBIT A

Generator Name: Alaskan Copper Works

Company I.D. #: 22149-001-03

A. Generator Information

1. Address: 3200 Sixth Avenue South

3. Material EPA Waste Code: D007

Seattle

4. Generator's EPA I.D. Number: WAD980738546

WA

98124

2. Contact: Gerald Thompson

5. Generator's State I.D. Number:

Title: Environmental Assistant

B. Recyclable Material Characteristics

1. Color(s): Black

6. Texture (similar to)

7. Appearance

9. Free Liquids (EPA SW 846, Method 9095)

☒ Wet Clay

☒ Homogenous

☒ Not Present

☐ Present

2. Odor (none, mild, strong)

☐ Dry Clay

☐ Bilayered

10. Debris

11. Reactivity

None

☐ Sand

☒ Not Present

☒ Not Reactive

Description of Odor:

☐ Powder

☐ Present

☐ Reactive

☐ Other

☐ Multilayered

3. Moisture (wet, damp, dry)

8. Organic Vapors

☐ Present

12. Radionuclides (ASTM D5928-96)

Wet

☒ Not Present (< 1ppm) If present, identify compounds and amount in ppm on a wet basis.

☒ Not Detected

☐ Detected

Percent Solids: 48.9

4. pH

5. Ignitability

☒ Pass

☒ Not Detected

(EPA SW 846, method 9040/9045)

(40 CFR §261.21)

☒ PASS

☐ Detected _____ ppm

pH: 8.53 @ 19.9°C

☐ FAIL

☐ Fail

C. Analytical Data

(Content on a dry weight basis in ppm or %)

Constituent *		Content	Qualifier	Constituent *		Content	Qualifier
1. Aluminum ¹	Al	111698.0 ppm	M3	19. Magnesium ¹	Mg	3324.9 ppm	
2. Antimony ^{1,†}	Sb	13.1 ppm	M2	20. Manganese ¹	Mn	8403.1 ppm	M3
3. Arsenic ^{1,†}	As	42.2 ppm		21. Mercury ¹	Hg	< 3.3 ppm	
4. Barium ^{1,†}	Ba	< 10.0 ppm		22. Nickel ^{1,†}	Ni	50190.3 ppm	M3
5. Beryllium ^{1,†}	Be	< 10.0 ppm	M7	23. Selenium ^{1,†}	Se	< 50.0 ppm	
6. Bismuth ¹	Bi	85.6 ppm		24. Silver ^{1,†}	Ag	< 5.0 ppm	M2
7. Cadmium ^{1,†}	Cd	< 20.0 ppm		25. Thallium ^{1,†}	Tl	23.4 ppm	
8. Calcium ¹	Ca	288.4 ppm		26. Tin ^{1,†}	Sn	< 100.0 ppm	
9. Chloride ⁴	Cl ⁻	0.13 %		27. Zinc ^{1,†}	Zn	2264.2 ppm	
10. Chromium, Hexavalent ²	Cr ⁺⁶	174.9 ppm					
11. Chromium, Total ^{1,†}	Cr	71921.1 ppm	M3				
12. Cobalt ¹	Co	795.7 ppm	M3				
13. Copper ^{1,†}	Cu	36296.4 ppm	M2				
14. Cyanide, Amenable ^{3,†}	CN ⁻	not analyzed					
15. Cyanide, Total ^{3,†}	CN ⁻	< 20.5 ppm	Z2, Z3				
16. Fluoride ⁴	F ⁻	0.03 %					
17. Iron ¹	Fe	356654.0 ppm	M3				
18. Lead ^{1,†}	Pb	32.8 ppm					

*** Analytical Procedure References**

1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)

2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)

3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)

4. HNO₃ or H₂O₂ / EPA Method SW846 9056 (Digestion / Analysis)

† Licensed Constituent

* Analytical Procedure References

- EPA Method SW846 3050 / 6010 (Digestion / Analysis)
 - EPA Method SW846 3060 / 7196 (Extraction / Analysis)
 - EPA Method SW846 9010 / 9213 or 9014 (Distillation / Analysis)
 - HNO₃ or H₂O₂ / EPA Method SW846 9056 (Digestion / Analysis)
- † Licensed Constituent

D. Certification

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: 

Date: 4/23/08

Title: Laboratory Manager

AZ DHS #: AZ0586

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QA/QC DATA

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QA/QC Criteria: All analyses met method criteria unless otherwise noted.

Explanation of Data Qualifiers:

- | | |
|----|---|
| M2 | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| M3 | The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level.
The method control sample recovery was acceptable. |
| M7 | Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. |
| Z2 | The low distilled standard did not meet method acceptance limits, the high distilled standard was acceptable. |
| Z3 | The duplicate sample did not meet method acceptance limits due to the lack of sample homogeneity. |

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SAMPLE COLLECTION & ANALYSIS COMPLETION DATES

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Constituent		Sample Date	Completion Date	Sample Technician
1. Aluminum	Al	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
2. Antimony	Sb	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
3. Arsenic	As	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
4. Barium	Ba	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
5. Beryllium	Be	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
6. Bismuth	Bi	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
7. Cadmium	Cd	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
8. Calcium	Ca	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
9. Chloride	Cl ⁻	01/08/2008 13:21	01/10/2008 12:00	LEONEL GARCIA
10. Chromium, Hexavalent	Cr ⁺⁶	01/08/2008 13:21	02/15/2008 15:00	LEONEL GARCIA
11. Chromium, Total	Cr	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
12. Cobalt	Co	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
13. Copper	Cu	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
14. Cyanide, Amenable	CN ⁻			
15. Cyanide, Total	CN ⁻	01/08/2008 13:21	01/17/2008 12:00	LEONEL GARCIA
16. Fluoride	F ⁻	01/08/2008 13:21	01/10/2008 12:00	LEONEL GARCIA
17. Iron	Fe	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
18. Lead	Pb	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
19. Magnesium	Mg	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
20. Manganese	Mn	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
21. Mercury	Hg	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
22. Nickel	Ni	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
23. Selenium	Se	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
24. Silver	Ag	01/08/2008 13:21	03/06/2008 10:52	LEONEL GARCIA
25. Thallium	Tl	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
26. Tin	Sn	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA
27. Zinc	Zn	01/08/2008 13:21	02/28/2008 12:49	LEONEL GARCIA



World Resources Company

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Tolleson, AZ 85353-4025

Tel: 800.972.1955
Fax: 623.936.9164

April 23, 2008

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
3200 Sixth Avenue South
Seattle, WA 98124

Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company

Jason Hensley
Laboratory Manager

Enclosures